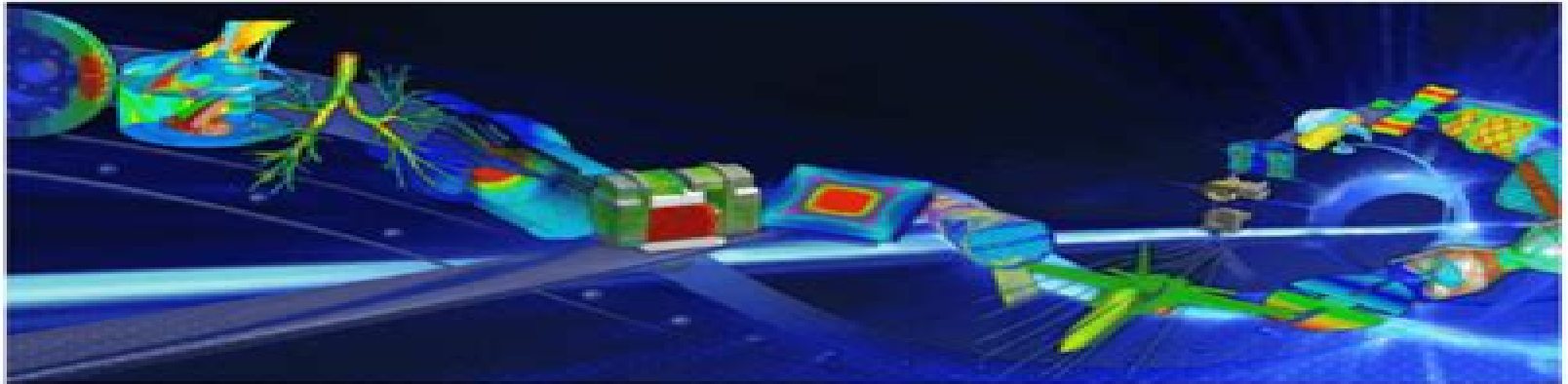




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Aortic Dissection: Simulation Tools for Disease Management and Understanding Mona Alimohammadi, 2018-01-20 This thesis addresses computation fluid dynamics modelling of aortic dissection AD in order to generate in silico diagnostic information and assess virtual surgery outcomes The thesis introduces several important advances in the modelling of aortic dissection and lays essential groundwork for further development of this technology The work thesis represents a unique and major step forward in our understanding of AD using a patient specific systematic and coherent simulation approach and is currently the most advanced work available on AD

Computational Fluid Dynamics Simulations Guozhao Ji, Jiujiang Zhu, 2020 Fluid flows are encountered in our daily life as well as in engineering industries Identifying the temporal and spatial distribution of fluid dynamic properties is essential in analyzing the processes related to flows These properties such as velocity turbulence temperature pressure and concentration play important roles in mass transfer heat transfer reaction rate and force analysis However obtaining the analytical solution of these fluid property distributions is technically difficult or impossible With the technique of finite difference methods or finite element methods attaining numerical solutions from the partial differential equations of mass momentum and energy have become achievable Therefore computational fluid dynamics CFD has emerged and been widely applied in various fields This book collects the recent studies that have applied the CFD technique in analyzing several representative processes covering mechanical engineering chemical engineering environmental engineering and thermal engineering

CFD Modeling and Simulation in Materials Processing 2016 Laurentiu Nastac, Miaoyong Zhu, Adrian Sabau, 2017-08-31

Inhomogeneous Chamber States in Screw Spindle Vacuum Pumps Heiko Pleskun, 2025-01-15 The identification of previously unrecognised inhomogeneous pressure distributions within the working chambers of screw spindle vacuum pumps provides new insights into their efficiency losses These chamber inhomogeneities which occur particular at low chamber pressures and high rotational speeds lead to increased gap mass flow rates due to locally increased pressures and also reduce the filling efficiency by decreasing the intake of mass during the filling process A novel one dimensional model is being developed to analyse these effects Depending on the gas rarefaction the geometry and the gas surface interaction a closure problem arises which is solved separately using analytical solutions and results from the direct simulation Monte Carlo DSMC method The model is validated by experiments and three dimensional CFD simulations Additionally transient CFD simulations are performed to investigate the chamber filling process with an expanding computational mesh Based on these findings a dimensionless number is derived to quantify both the chamber inhomogeneity and the filling efficiency This enables an efficient integration of the new model into a chamber model simulation software A comparison of the simulation results with experimental data of a complete machine confirms the applicability of the model and leads to an excellent agreement

Integrated Computer Technologies in Mechanical Engineering - 2021 Mykola Nechyporuk, Vladimir Pavlikov, Dmitriy Kritskiy, 2022-02-21 The International Scientific and

Technical Conference Integrated Computer Technologies in Mechanical Engineering Synergetic Engineering ICTM was established by National Aerospace University Kharkiv Aviation Institute The Conference ICTM 2021 was held in Kharkiv Ukraine during October 28 29 2021 During this conference technical exchanges between the research community were carried out in the forms of keynote speeches panel discussions as well as special session In addition participants were treated to a series of receptions which forge collaborations among fellow researchers ICTM 2021 received 203 papers submissions from different countries Target Groups ICTM was formed to bring together outstanding researchers and practitioners in the field of information technology in the design and manufacture of engines creation of rocket space systems aerospace engineering from all over the world to share their experience and expertise

Design of Hydrodynamic Machines Getu Hailu, Michal Varchola, Peter Hlbocan, 2022-05-24 Design of Hydrodynamic Machines provides a broad yet concise theoretical background on the relationship between fluid dynamics and geometry It covers the most important types of turbomachinery used in power generation industrial processes utilities and the oil and gas industry Offering guidance on the hydraulic design aspect of different parts of turbomachinery such as impellers diffusers volute casing inlet and outlets the book discusses how to conduct performance characteristics testing and evaluate performance parameters of the designed parts It also covers aspects of CFD of turbomachinery Readers will be able to perform hydraulic design of important turbomachinery parts using commercially available software Intended for final year undergraduates and postgraduates in mechanical civil and aeronautical engineering the book will also be useful for those involved in the hydraulic design analysis and testing of turbomachinery

Advances in Fluid Mechanics X C. A. Brebbia, S. Hernández, M. Rahman, 2014-07-01 Containing the proceedings of the tenth International Conference on Advances in Fluid Mechanics it follows the success of all previous conferences in the series the first of which took place in 1996 The field of fluid mechanics is vast and has numerous diverse applications This book covers a wide range of topics including basic formulations and their computer modelling as well as the relationship between experimental and analytical results The emphasis is on new applications and research currently in progress Topics covered include Computational methods Hydrodynamics Fluid structure interaction Multiphase flow Bio fluids Electronic components Environmental fluid mechanics Heat and mass transfer Industrial applications Energy systems Nano and micro fluids Turbulent flow River hydraulics Combustion problems Jets Fluidics Bubble and drop dynamics

Automation Equipment and Systems Wen Zhe Chen, Pin Qiang Dai, Yong Lu Chen, Ding Ning Chen, Zheng Yi Jiang, 2012-02-27 Selected peer reviewed papers from the 3rd international Conference on Manufacturing Science and Engineering ICMSE 2012 March 27 29 2012 Xiamen China

Advances in Fluid Mechanics IX Matiur Rahman, C. A. Brebbia, 2012 This book discusses the basic formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Containing papers from the Ninth International Conference on Advances in Fluid Mechanics this book discusses the basic formulations of fluid mechanics and their computer modelling as

well as the relationship between experimental and analytical results Scientists engineers and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature The book covers a wide range of topics with emphasis on new applications and research currently in progress including Computational Methods in Fluid Mechanics Environmental Fluid Mechanics Experimental Versus Simulation Methods Multiphase Flow Hydraulics and Hydrodynamics Heat and Mass Transfer Industrial Applications Wave Studies Biofluids Fluid Structure Interaction

Computational Engineering Günter Hofstetter, 2014-05-15 The book presents state of the art works in computational engineering Focus is on mathematical modeling numerical simulation experimental validation and visualization in engineering sciences In particular the following topics are presented constitutive models and their implementation into finite element codes numerical models in nonlinear elasto dynamics including seismic excitations multiphase models in structural engineering and multiscale models of materials systems sensitivity and reliability analysis of engineering structures the application of scientific computing in urban water management and hydraulic engineering and the application of genetic algorithms for the registration of laser scanner point clouds

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